

In the claims:

8. (Amended) A regenerative thermal oxidizer for processing a gas, comprising:

a combustion zone;

a first heat exchange bed containing heat exchange media and in communication with said combustion zone;

a second heat exchange bed containing heat exchange media and in communication with said combustion zone;

A3 a rotatable switch valve for alternating the flow of said gas between said first and second heat exchange beds, said rotatable switch valve comprising a radial duct enclosed by an outer housing, and a ring seal in fluid communication with said radial duct, said ring seal having a bore adapted to allow gas flow to or from said radial duct and form a pressurized seal with said outer housing.

9. (Amended) The regenerative thermal oxidizer of claim 8, wherein said rotatable switch valve further comprises a first valve port in fluid communication with said first heat exchange bed and a second valve port separate from said first valve port and in fluid communication with said second heat exchange bed, said regenerative thermal oxidizer further comprising a cold face plenum comprising at least one baffle for dividing said first and second valve ports into a plurality of chambers.

10. (Amended) The regenerative thermal oxidizer of claim 9, wherein each of said chambers is congruent with respect to one another.

A4 12. (Amended) The regenerative thermal oxidizer of claim 8,

HK further comprising means for causing gas to flow into said radial duct, and between said ring seal and said outer housing.

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